

GRIER'S SOUTHERN ALMANAC

FOR THE STATES OF

GEORGIA, SOUTH CAROLINA,
AND FLORIDA,

ALABAMA, TENNESSEE,
LOUISIANA,



FOR THE YEAR OF OUR LORD

1863

Being the Third after Bissextile or Leap-Year, and the Third
of Southern independence, and (until 4th of July,)
the Eighty-seventh of the Independence of
the United States,

Calculated for the Latitude and Meridian of Averetta, Ga.,
AND WILL SERVE FOR THE ADJACENT STATES,

By I. P. ASHMORE, of AMERICUS, GA.

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SIGNS OF THE ZODIAC AND INFLUENCE OF THE MOON

The Moon is supposed by some to have a special influence upon different parts of the bodies of men and animals, as it passes through the signs of the Zodiac. The following cut is inserted for the sake of those who believe in this imaginary influence, and is intended to represent the part of the body affected by the Moon when it is in any particular sign of the Zodiac. By finding the Moon's place in the proper column of the calendar pages, and comparing it with this cut, the particular part which is supposed to be affected, will be at once seen. Thus, when the Moon is in Aries (φ), it is supposed to influence the head and face; when in Capricornus ($\text{V}\vartheta$) the knees, etc.

φ Governs the FACE and HEAD.

II
ARMS.

Ω
HEART.

Reins.

†
THIGHS.

~~
LEGS.



V
NECK.

B
BREAST

ny
BOWELS

m
SECRETS

$\text{V}\vartheta$
KNEES.

NAMES AND CHARACTERS OF THE SIGNS OF THE ZODIAC.

φ Aries, the Ram. V Taurus, the Bull. II Gemini, the Twins. G Cancer, the Crab. Ω Leo, the Lion. $\text{V}\vartheta$ Virgo, the Virgin. --- Libra, the Balance. m Scorpio, the Scorpion. † Sagittarius, the Archer. $\text{V}\vartheta$ Capricornus, the Goat. ~~ Aquarius, the Waterman. X Pisces, the Fishes.

CHRONOLOGICAL CYCLES.

Dominical Letter, .....	..... D.	Solar Cycle,	24
Golden Number, .....	..... 2	Roman Indiction,	6
Epact, (Moon's age,) Jan. 1st.....	11	Julian Period.....	6576

MOVEABLE FEASTS OF THE CHURCH.

Septuageima Sunday	Feb. 1	Rogation Sunday,	May 10
Quin. or Shrove Sunday,	Feb. 15	Ascension Day,	May 14
Ash-Wednesday,	Feb. 18	Whit-Sunday,	May 4
John Sunday,	Mar. 29	Advent Sunday	Nov 29
Easter Sunday.	April 5		

ECLIPSES FOR 1863.

The first will be of the Sun, on the 17th of May, at 11h. 15m. A. M., visible in America.

The second will be a total Eclipse of the Moon, on the 1st day of June, partially visible, and is calculated to apparent time, as follows:

	DAY.	H.R.	MIN.	SEC.	
The Eclipse begins on June	1.	4	17	28	
Beginning of total darkness	"	5	24	26.	
End of total darkness	"	6	31	18.	
The Moon will rise at Augusta	"	7	1	0.	
with 7 2-10 digits eclipsed on her					
Western limb					
The Eclipse will end	"	7	38	16.	
Duration of visibility	"	6	27	16.	

The third will be of the Sun, on the 11th of Nov., at 2h. 36m. A. M., invisible in America.

The fourth will be of the Moon, on the 23rd day of November, visible and nearly total throughout the continent of America, and is calculated to apparent time, as follows:

	DAY.	H.R.	MIN.	SEC.	
Beginning at Augusta, Ga.,	Nov. 23	1	57	14.	
Middle of Eclipse	"	3	37	53.	
Ecliptic Opposition	"	2	43	21.	
End of Eclipse	"	5	18	22.	
Duration	"	8	21	18.	

Digits eclipsed 11 1 2, on the Moon's north limb.

At the greatest observation, about 1-24 part of the Moon's diameter, will remain uneclipsed.

EQUINOXES AND SOLSTICES.

Vernal Equinox,	(Spring begins)	March 21st.
Summer Solstice,	(Summer begins)	June 21st.
Autumnal Equinox,	(Autumn begins)	Sept. 23d.
Winter Solstice,	(Winter begins)	Dec. 21st.

ASPECTS OF THE PLANETS.

The Planet Venus will be Evening Star till September 25th, then Morning Star till the end of the year.

Jupiter will be in opposition with the Sun, on the 12th of April, when he will shine with his greatest brilliancy.

Saturn will be in opposition with the Sun, on the 29th of March, when he will be brightest.

Mars will be too near the Sun to afford any favorable opportunity of viewing him this year.

THE TWELVE SIGNS OF THE ZODIAC.

Spring Signs,	1. ♈ Pisces.	2. ♉ Aries.	3. ♈ Taurus.
Summer Signs,	4. ♊ Gemini.	5. ♋ Cancer.	6. ♌ Leo.
Autumn Signs,	7. ♌ Virgo.	8. ♍ Libra.	9. ♎ Scorpio.
Winter Signs,	10. ♏ Sagittarius.	11. ♐ Capricornus.	12. ♑ Aquarius.

The first six are called Northern Signs, and the other six Southern Signs.

TABLE OF THE PRINCIPAL BODIES IN THE SOLAR SYSTEM.

NAMES.	Mean	Mean Dis-	Revolu-	Revolu-	Veloci-	Size—the	Denosi-	Light,
	Dia-me-	taunce from	tion ar'd	tion on	ty per	Earth	Earth	Earth
	Miles.	Miles.	yrs. days.	d. h. M.	Miles.	being 1.	being 1.	being 1.
THE SUN...	883,246	.....	.....	25 9 59	.....	1,412,921,101	0.252	Infin-
Mercury...	3,224	36,814,000	.... 88 1 0 5	1,827	.....	0,053	1.120	0.630
Venus	7,687	68,787,000	.... 224 .. 23 21	1,338	.....	0,900	0.923	1.011
The Earth	7,912	95,103,000	1	23 56	1,138	1,000	1,000	1,000
The Moon	2,180	95,103,000	1	27 7 43	38	0,020	0,615	1,000
Mars	4,189	144,908,000	1 321 1 0 37	921	.....	0,125	0,945	0,431
Jupiter ...	80,170	494,797,000	11 215 .. 9 56	496	.....	1,456,000	0.278	0,037
Saturn ...	79,042	907,168,000	29 167 .. 10 29	368	.....	771,000	0.138	0,011
Uranus ...	35,112	1,824,290,000	81 6 1 13 33	259	.....	80,000	0.242	0,002
Neptune...	41,500	2,854,093,000	164 238	208	.....	143,000	0,140	0,001

NOTE.—There are more than fifty small Planets or Asteroids, between the orbit of Mars and Jupiter.

MEAN AND APPARENT TIME.

MEAN TIME is the time indicated by a well-regulated clock or watch running without variation, so as to make the day, or 24 hours, equal to the Mean Time at which the Sun comes to the meridian during the year. Apparent Time is the time which makes the Sun come to the meridian every day at 12 o'clock. On account of the ellipticity of the earth's orbit, and its inclination to the equator, the sun does not always come to the meridian at the same time; and hence, Apparent Time is irregular, and is said to be fast, or slow, or Mean Time, or gains on it, sometimes to the amount of sixteen minutes. When the Sun comes to the meridian earlier than the Mean Time, it is said to be fast; but when it comes to it later, it is said to be slow; and the amount by which Apparent Time differs from Mean Time is called the Equation of Time. In order to set a timepiece according to Mean Time, it is necessary to have a dial, or noon mark; and allowance must be made for the Equation of Time. This Almanac is in Mean Time.

EXPLANATION OF THE SIGNS USED IN THIS ALMANAC.

• New Moon, and Moon generally, ☽ First Quarter, ☽ Full Moon, ☽ Last Quarter ☽ Moon's ascending node, or dragon's head. ☽ Moon's descending node, or dragon's tail. IN APOGEE—Moon farthest from the Earth. IN PERIGEE—Moon nearest the earth. ☽ Highest—Moon farthest North. ☽ Lowest—Moon farthest South. ☽ Saturn. ☽ Venus ☽ near together. ☽ Jupiter. ☽ Mercury ☽ 90 deg. apart. ☽ Opposition or 180 degrees apart ☽ Mars. 7* Stars. ☽ Sun. ☽ Herschel.

Complete Court Calendars, &c. for the States of Alabama and Tennessee, will be inserted in orders of 10 gross and upwards from dealers ordering for circulation in those states respectively.

NOTE. Any person solving ten of the Problems contained in this Almanac, and sending to me at Americus, Ga., by the 15th of May next, the correct answers to the same, shall have the same acknowledged in the Almanac for 1864.

A few original problems for 1864, are solicited. They must be thoroughly solved and explained, in order to meet with attention.

T. P. ASHMOOR

1st Month,]

JANUARY, 1863.

[31 Days]

MOON'S PHASES.

		H. M.	
Full Moon,	4	9 46	eve.
Last Quarter	12	1 43	eve.
New Moon,	19	9 54	mo.
First Quarter,	26	3 45	eve.

PROBLEMS.

1. What must be the diameter of a balloon, in order that it may ascend with four persons, weighing each 160 pounds, and the balloon and bag of sand weighing 60 pounds.

D. of M.	D of W.	Various Phenomena.	Sun rises H. M.	Sun sets H. M.	MOON'S PLACE. H. M.	Moon ri & sts H. M.	High tide Savannahs
						H. M.	
1 Thur		New Year's Day. Cold	7 4 4 56	II	4 5	5 55	
2 Frid		in Perigee and	7 3 4 57		5 0	7 10	
3 Satur		highest chilly weather	7 3 4 57	25	5 50	8 8	
4 S.		Princeton Battle, 1777.	7 3 4 57		rises.	9 G	
5 Mon		Cloudy and	7 2 4 58	Ω	6 15	9 45	
6 Tues		Epiphany. cold.	7 2 4 58		7 8 10	10 26	
7 Wed			7 2 4 58	IV	8 20 11	11 2	
8 Thur		Bat. N. Orleans, 1815.	7 1 4 59		9 13 11	11 38	
9 Frid		Fair and frosty.	7 1 4 59		10 18	E. 14	
10 Satur		Aldebaran sou 9h 8m.	7 0 5 0	≈	11 25	0 47	
11 S.		Ala. & Fla. seced., '61.	7 0 5 0		morn.	1 24	
12 Mon		Now more pleasant.	6 5 9 5	1	0 39	2 2	
13 Tues		Richard II. killed, 1490.	6 5 9 5	1	1 40	2 46	
14 Wed		N. E. Winds	6 5 8 5	2 4	2 50	3 47	
15 Thur		and any	6 5 8 5	2	3 46	5 6	
16 Frid		lowest	6 5 7 5	3 19	4 46	6 21	
17 Satur		Bat. Cowpens, 178	6 5 7 5	3	5 50	7 30	
18 S.		flying clouds.	6 5 6 5	4	6 31	8 10	
19 Mon		Capella sou. 9h. 11m.	6 5 5 5	5 ≈	sets.	9 2	
20 Tues		enters ≈ Goo sec '61.	6 5 5 5	5	6 30	9 45	
21 Wed		High winds from	6 5 4 5	6 ♀	7 34	10 25	
22 Thur		Rigel sou. 8h. 48m.	6 5 4 5	6	8 25	11 5	
23 Frid		N. W. and cold.	6 5 3 5	7	9 21	11 45	
24 Satur		Augusta arsenal tak '61	6 5 2 5	8 19	10 10	Morn.	
25 S.		Cold and	6 5 1 5	9	11 8	0 28	
26 Mon		Sirius sou. 10h. 16m.	6 5 1 5	9 8	morn.	1 13	
27 Tues		Cloudy.	6 5 0 5	10	0 7	1 59	
28 Wed		Perhaps snow	6 4 9 5	11 II	1 8	2 57	
29 Thur		Prof F. C. Bond died	5 9 6 4 8 5	12	2 2	4 9	
30 Frid		g highest.	6 4 8 5	12 ≈	2 56	5 34	
31 Satur		or sleet.	6 4 7 5	13	3 06	5 58	

2d Month.]

FEBRUARY, 1863

28 Days

MOON'S PHASES.

D. H. M

Full Moon 3 4 39 eve.
 Last Quarter 11 1 51 mo.
 New Moon 17 9 30 eve.
 First Quarter 25 9 16 mo.

2. If the mercury in a barometer, at the bottom of a tower, be observed to stand at 30 inches, and, on being carried to the top of it, be observed 29.9 inches, what is the height of the tower?

3. Suppose a piece of marble contains 8 cubic feet, and weighs 1,353 $\frac{1}{2}$ lbs., what is the specific gravity?

D. of M	D. of W	Various Phenomena.	Sun	Sun	Moon	High tide at Savannah	
			rises	sets	MOON'S PLACE		
H. M.	M. M.		H. M.	M. M.		ri. st.	ri. st.
1. S.	Septuagesima S.	6 465 14 Δ	4	20	5	1	
2. Mon.	Purification B. V. Mary.	6 455 15		5 15	8	49	
3. Tue.	<i>Fair and frosty.</i>		6 445 16 ϖ	5 47	9	32	
4. Wed.		[1780	6 445 16		rises.	10	9
5. Thu.	Earthquake at Sicily,	6 435 17 Δ	8	30 10	47		
6. Fri.		<i>Damp and</i>	6 425 18		9 14 11	14	
7. Satu.	Sirius sou. 9h. 25m.	6 415 19 η	10	25 11	46		
8. S.	<i>cloudy weather.</i>	6 405 20	11	6 E	15		
9. Mon.			6 395 21 4	11 30	0	44	
10. Tue.	Pre. Gov. Con. Stat. '61.	6 385 22	11 59	1	25		
11. Wed.	Revolution in Domingo,	5 375 23	morn.	2	4		
12. Thu.	lowest.	[1807. 6 365 24 ϖ	0 36	3	3		
13. Fri.		<i>Wind and</i>	6 365 24		1 48	4	
14. Sat.	Valentines	<i>cold.</i> 6 355 25 ϖ	2 43	5	29		
15. S.	Quiquag. Sun.	6 345 26	3 26	6	47		
16. Mon.	Melancthen born, 1497.	6 335 27	4 50	7	52		
17. Tue.	Sirius souths 8h. 50m.	6 325 28 κ	sets.	8	37		
18. Wed.	Ash Wednesday.	6 315 29	7 30	9	22		
19. Thu.	Sun enters $\text{\textit{\textit{X}}}$	6 305 30	8 41	10	2		
20. Fri.		<i>Much cloudy.</i> 6 295 31	9 29	10	44		
21. Sat.		<i>weather and</i>	6 285 32	10 25	11	27	
22. S.	Washington born, 1732.	6 275 33 ϖ	10 49	morn.			
23. Mon.		<i>some rain.</i> 6 265 34	11 20	0	16		
24. Tue.	St. Mathias.	6 255 35 \square	11 58	0	54		
25. Wed.	<i>Now more pleasant.</i>	6 245 36	morn.	1	41		
26. Thu.	highest.	6 235 37 ϖ	0 56	2	36		
27. Frid.	Procyon south 9h. 3m.	6 225 38	1 47	3	49		
28. Satu.	<i>at the end of this month.</i>	6 215 39 ϖ	2 36	5	16		

John
days
set-
Sat
th. 11/1

3d Month.]

MARCH, 1863.

[31 Days.]

MOON'S PHASES.

	D.	H.	M.	
Full Moon	5	9	21	mo
Last Quarter	12	0	15	eve
New Moon	19	9	17	mo
First Quarter	27	3	14	mo

4. The diameter of a balloon is 2,665 feet, what weight is it capable of raising?

5. What is the solidity in inches of several fragments of clear glass, whose weight is 13 ounces?

D. of M	D of W	Various Phenomena.	Sun	Sun	Moon	High tide
			rises	sets	ri. & sets	Savan'ah
H.M.	H.M.	MOON'S	H.	M.	H.	M.
1	S.	St. David.	6	20 5 40	3 35	6 40
2	Mon	Procyon sou. 9 h. 48 m.	6	19 5 41 ϖ	4 6	7 43
3	Tues	<i>Fair and frosty.</i>	6	18 5 42	4 44	8 29
4	Wed	Pollux sou. 8 h. 44 m.	6	17 5 43 ϖ	5 19	9 10
5	Thur	La Place died, 1827.	6	16 5 44	rises.	9 43
6	Frid	<i>Cloudy and damp.</i>	6	15 5 45 ϖ	7 7 10	17
7	Satur	Regulus sou. 10 h. 56 m.	6	14 5 46	8	0 10 46
8	S.	<i>Cold winds.</i>	6	13 5 47	8 53 11	17
9	Mon	Regulus sou. 10 h. 48 m.	6	12 5 48 ϖ	9 45 11	48
10	Tues	<i>from the N. W.</i>	6	11 5 49	10 37	Ev. 18
11	Wed	lowest.	6	10 5 50 ϖ	11 29	0 59
12	Thur		6	9 5 51	morn.	1 30
13	Frid	is discovered 1781.	6	8 5 52 ϖ	0 20	2 19
14	Satur	<i>More mild.</i>	6	7 5 53	1 10	3 24
15	S.	Jackson born. 1767.	6	6 5 54	1 57	4 51
16	Mon	Regulus sou. 10 h. 21 m.	6	5 5 55 ϖ	2 43	6 11
17	Tues	St. Patrick.	6	4 5 56	3 27	7 18
18	Wed	<i>Stormy and</i>	6	3 5 57 ϖ	4 9 8	8
19	Thur	<i>unpleasant weather.</i>	6	2 5 58	sets.	8 53
20	Frid	h 8 ϖ h rises 5 h. 59 m.	6	1 5 59	7 40	9 35
21	Satur	Days and nights equal.	6	0 6 0 ϖ	8 35 10	21
22	S.	<i>Fair and more</i>	5	59 6 1	9 0 11	4
23	Mon	Regulus sou. 9 h. 58 m.	5	58 6 2 ϖ	10 0 11	51
24	Tues	<i>pleasant.</i>	5	57 6 2	10 45	Morn.
25	Wed	Annunciation B. V. M.	5	56 6 4	11 25	0 34
26	Thur	highest.	5	55 6 5 ϖ	11 59	1 21
27	Frid	<i>Cloudy and</i>	5	54 6 6	morn	2 21
28	Satur	War with Russia, '54.	5	53 6 7 ϖ	0 40	3 29
29	S.	Palm Sun. <i>some rain.</i>	5	52 6 8	1 35	4 54
30	Mon	Regulus sou. 9 h. 20 m.	5	51 6 9 ϖ	2 20	6 11
31	Tues	Calhoun died, 1850.	5	50 6 10	3 45	7 16

4th Month,]

APRIL, 1863.

[30 Days

MOON'S PHASES.

	D.	B.	M.
Full Moon	3	11	3 eve.
Last Quarter	10	9	14 eve.
New Moon	17	9	47 eve.
First Quarter	25	8	22 eve.

6 A miller has a head of water four feet above the sluice, how high must the water be raised above the opening so that half as much again water may be discharged from the sluice in the same time?

D. of o'	D.	Various Phenomena.	Sun.	Sun.	Moon PLACE	Moon rise & sets	High tide Savannah
			rise:	sets			
U. M.	H. M.	PLACE	U. M.	H. M.	PLACE	U. M.	H. M.
1	Wed	Regulus sou. 18m.	5 49	6 11	≈	4 35	8 4
2	Thur	Pleasant weather.	5 48	6 12		5 2	8 42
3	Frid	Good Friday	5 47	6 13	ℳ	rises.	9 16
4	Satur	W. H. Harrison d'd '41.	5 46	6 14		7 0	9 48
5	S.	East. Sunday [planting.	5 45	6 15	†	7 58	10 19
6	Mon	Easter Monday.	5 44	6 16		8 36	10 48
7	Tues	¶ lowest.	5 43	6 17	ℳ	9 21	11 20
8	Wed	Rain with Thunder.	5 42	6 18		10 20	11 42
9	Thur	Edward IV. died 1483.	5 41	6 19		11 18	E. 27
10	Frid	Bat. of Toulouse, 1814.	5 40	6 20	ℳ	morn.	1 8
11	Satur	Pittsburg burned, 1845.	5 39	6 21		0 15	1 57
12	S.	48 ☽ 4 rises 6h. 22m.	5 38	6 22	ℳ	1 21	2 58
13	Mon	Fort Sumter taken, '61.	5 37	6 23		2 26	4 18
14	Tues	Embargo repealed 1814.	5 36	6 24		3 35	5 33
15	Wed	Spica sou. 11h. 39m.	5 35	6 25	ℳ	4 50	6 43
16	Thur	Warm for this	5 34	6 26		5 52	7 37
17	Frid	Virginia seceded. 1861.	5 33	6 27	ℳ	sets.	8 29
18	Satur	month.	5 32	6 28		7 30	9 11
19	S.	ℳ enters ♈. [near.	5 31	5 29	□	8 18	9 59
20	Mon	ℳ ♈ at 2h 8m aft. very	5 30	6 30		9 0	10 47
21	Tues	Cloudy end 5 29	6 31			9 42	11 32
22	Wed	ℳ highest. windy,	5 28	6 32	ℳ	10 81	Morn.
23	Thur	St. George.	5 27	6 33		11 14	0 17
24	Frid	Brazil discovered, 1500.	5 26	6 34	ℳ	11 58	1 5
25	Satu	St. Mark. Fair end 5 25	6 35			morn.	2 1
26	S.	Spica sou. 10h. 56m.	5 24	6 36	ℳ	0 40	3 2
27	Mon	Arcturus sou. 11h. 44m.	5 23	6 37		1 31	4 18
28	Tues	Wolfe killed, 1759.	5 22	6 38	ℳ	2 22	5 26
29	Wed	pleasant weather.	5 21	6 39		3 11	6 32
30	Thur	Washington inaug. '89.	5 20	6 40	ℳ	4 0	7 25

5th Month, J.

MAY, 1863.

[31 Days.]

MOON'S PHASES.

	B.	M.	N.
Full Moon	3	9	43 mo.
Last Quarter	10	5	18 mo.
New Moon	17	11	15 mo.
First Quarter	23	11	23 mo.

7. What is the velocity of water issuing from a head of water 5 feet deep?

8. What is the difference between the length of a pendulum, which vibrates half seconds, and one which swings 3 seconds?

D of M.	D of W	Various Phenomena.	Sun		PLACE	MOON	High tide Savannah		
			rises	sets			n. h. m.	n. h. m.	n. h. m.
1 Frid		St. Philip & St. James.	5 20 6 40			4 52	8	6	
2 Satur		Warm and dry	5 19 6 41	↑		5 46	8	46	
3 S.		Tennessee seceded '61.	5 18 6 42		rises.	9	20		
4 Mon		Robert Grier died, '48.	5 17 6 42			8	0	9	53
5 Tues		Moon lowest. Damp	5 16 6 44	✓		8	50	10	25
6 Wed		Humboldt died '59.	5 15 6 45			9	41	10	59
7 Thur		and much	5 15 6 45	✗		10	36	11	38
8 Frid		cloudy weather.	5 14 6 46			11	21	E.	9
9 Satur		Arcturus sou 10h 56m.	5 13 6 47	✗		11	59	0	52
10 S.		Rogation Sunday.	5 12 6 48			morn.	1	42	
11 Mon		Rain with	5 12 6 48			0	46	2	38
12 Tues		Astares sou 1h 0m.	5 11 6 49	✗		1	32	2	46
13 Wed		thunder.	5 10 6 50			2	25	4	50
14 Thur		Ascension day.	5 9 6 51	8		3	20	6	4
15 Frid		Now we may	5 9 6 51			4	41	7	6
16 Satur		expect	5 8 6 52			5	58	8	1
17 S.		Sun eclipsed invisible.	5 7 6 53	II		6	51		
18 Mon		& fine gloaming	5 7 6 53			7	2	9	44
19 Tues		Moon highest.	5 6 6 54	✗		8	51	10	32
20 Wed		Sun enters II season.	5 5 6 55			9	40	11	16
21 Thur		till the end	5 5 6 55	II		10	36	Morn.	
22 Frid		of this	5 4 6 56			10	50	0	16
23 Satur		Irish rebellion com. '98.	5 4 6 56	✗		11	31	0	59
24 S.		Whit Sunday.	5 3 6 57			11	58	1	38
25 Mon		Whit Monday. month.	5 3 6 57	✗		morn.	2	30	
26 Tues		John Calvin died, 1564.	5 2 6 58			0	52	3	28
27 Wed		Fair	5 2 6 58			1	47	4	35
28 Thur		nd pleasant	5 1 6 59	III		2	35	5	37
29 Frid		Gen. Putnam died, '90.	5 1 6 59			3	21	6	36
30 Satur		lex. Pope died, 1744.	5 0 7 0			4	15	7	31
31 S.		Trinity Sunday.	5 0 7 0			5	20	8	14

6th Month.]

JUNE, 1863.

[30 Days.]

MOON'S PHASES.

D. E. M.

Full Moon	1	6	1 eve.
Last Quarter	8	13	eve.
Now Moon	16	1	54 mo.
First Quarter	24	0	19 mo.

9 I observed, that while a stone was falling from a precipice, a string with a bullet at the end, which measured 25 inches to the middle of the ball, had made five vibrations, what was the height of the precipice?

D. of M.	D of W	Various Phenomena.	Sun rises A.M.	Sun sets P.M.	Moon ri & sets PLACE	High tides Savannah		
						M.	M.	M.
1	Mon	Moon eclipsed visible.	4 59 7	1 ☽	rises.	8	54	
2	Tues	Moon lowest. Pleasant	4 59 7	1		3	0	9 29
3	Wed	Transit of ♀ in 1769.	4 58 7	2 ☾		8 56 10		7
4	Thur	weather.	4 58 7	2		9 42 10		43
5	Frid	Dr. Worcester died '21.	4 58 7	2		10 31 11		17
6	Satur	Cloudy and some	4 57 7	3 ☽		11 22 11		56
7	S.	Antares sou 11h 13m.	4 57 7	3		11 50 E.		39
8	Mon	Gee. Jackson died '43.	4 57 7	3 ☽	Morn.	1	2	
9	Tues	S. E. Southard born '87.	4 57 7	3		0 43	2	19
10	Wed	Victory at Bethel, 1861.	4 56 7	4 8		1 37	3	20
11	Thur	St. Barnabas. rain	4 56 7	4		2 25	4	30
12	Frid	Warm	4 56 7	4		3 25	5	35
13	Satur	and unpleasant.	4 56 7	4 ☽		4 35	6	43
14	S.	Moon highest.	4 56 7	4		5 40	7	45
15	Mon	Rain with thunder.	4 56 7	4 ☽		6 48	8	40
16	Tues	Pres. Polk died, 1849.	4 55 7	5		sets.	9	32
17	Wed	Bat. Bunker Hill, 1775.	4 55 7	5 ☽		9 5 10		29
18	Thur	Bat. Waterloo, 1815.	4 55 7	5		9 1 11		4
19	Frid	More pleasant	4 55 7	5 ☽		19 5 11		4
20	Satur	Q. Vict. crowned, '37.	4 55 7	5		0 20 Morn.		
21	S.	Sun ent. ☽. Longest day.	4 55 7	5		10 21 0		28
22	Mon	Antares sou 10h 14m.	4 55 7	5 ☽		11 19 1		6
23	Tues	Akenside died, 1772.	4 55 7	5		11 56 1		54
24	Wed	St. John Baptist.	4 55 7	5 ☽	Morn.	2 40		
25	Thur	Bish. Gadsden died, '52.	4 55 7	5		0 43 3 3 3		
26	Frid	Bat. Fort Moul. 1776.	4 55 7	5 ♦		1 31 4		39
27	Satur	Monmouth Bat. 1778.	4 56 7	4		2 33 5		42
28	S.	Warm and	4 56 7	4		3 41 6		44
29	Mon	q lowest. St. Peter.	4 56 7	4 ☽		7		40
30	Tues	dry weather.	4 56 7	4		6 0 8		25

7th Month.]

JULY, 1863.

[31 Days]

MOON'S PHASES.

D. E. M.

Full Moon 1 1 6 mo.
 Last Quarter 7 10 17 eve.
 New Moon 15 5 3 eve.
 First Quarter 23 10 58 mo.
 Full Moon 30 7 38 mo.

10. There is a sluice, one end of which is 2 1-2 feet lower than the other, what is the velocity of the stream per second?

11. If a ball fall through a space of 484 feet in 5 1-2 seconds, with what velocity will it strike?

D. of M.	D. of W.	Various Phenomena.	Sun Sun		MOON'S PLACES	Moon	High tide		
			rises	sets			ri. & sets	Savannah	M.
H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	M.
1 Wed		Sultry weather.	4 56 7	4		rises.	9	7	
2 Thur		Vis. of B. V. Mary.	4 56 7	4 ≈		8 31	9	46	
3 Frid		Fort Erie taken, 1814.	4 57 7	3		9 21 10	26		
4 Satur		U. S. Dec. Indepen. '76.	4 57 7	3 ≈		10 21 11	3		
5 S.		Bat. Cheat Mount. '61.	4 58 7	2		10 4 11	42		
6 Mon		Rain with loud	4 58 7	2		11 6 E.	24		
7 Tues		thunder and	4 58 7	2 ≈		morn.	1	8	
8 Wed		Antares sou 9h 12m.	4 58 7	2		0 32	1	57	
9 Thur		Pres. Taylor died 1850.	4 59 7	1 8		1 25	2	54	
10 Frid		Columbus born, 1447.	4 59 7	1		2 17	4	0	
11 Satur		J. Q. Adams born, 1767.	4 59 7	1		3 21	5	15	
12 S.		Hull invad. Canada, '12.	5 0 7	0 π		4 0	6	30	
13 Mon		vivid lightning.	5 0 7	0		4 33	7	37	
14 Tues		Moon highest.	5 1 6 59	≈		5 0	8	33	
15 Wed		Antares sou 8h 44m.	5 1 6 59			sets.	9	23	
16 Thur		Hegira begins 622.	5 2 6 58	Ω		7 38 10	8		
17 Frid		Elbridge Gerry b. 1739.	5 2 6 58			8 26 10	48		
18 Satur		Bat. Bull Run, 1861.	5 3 6 57	≈		9 15 11	24		
19 S.		Congress met at Rich'd	5 3 6 57			10 0 11	59		
20 Mon		Vega sou 10h 35m. '61	5 4 6 56	≈		10 48 Morn.			
21 Tues		Bat. Manassas 1861.	5 5 6 55			11 21 0	36		
22 Wed		Sun enters Ω.	5 5 6 55	π		11 59 1	13		
23 Thur		Warm	5 6 6 54			morn.	1	53	
24 Frid		and	5 6 6 54	4		0 48	2	34	
25 Satur		St. James.	5 7 6 53			1 38	3	35	
26 S.		St. Anne	5 8 6 52			2 40	4	49	
27 Mon		Moon lowest.	5 8 6 52	≈		3 44	6	2	
28 Tues		Dog days begin.	5 9 6 51			4 56	7	8	
29 Wed		Rainy and	5 10 6 50	≈		6 0	8	1	
30 Thur		stormy.	5 11 6 49			rises.	8	45	
31 Frid		Fomalhaut sou 2h 18m.	5 11 6 49	≈		8 21	9	26	

8th Month,]

AUGUST 1863

[31 Days.

MOON'S PHASES.

	D.	M.	N.	mo.
Last Quarter	6	9	28	mo.
New Moon	14	8	27	mo.
First Quarter	21	8	12	eve.
Full Moon	28	3	19	eve.

12. If a ball strike the ground with a velocity of 56 feet per second, from what height did it fall?

13. In what time will a musket ball, dropped from the top of a steeple 484 feet high, come to the ground?

D. of M.	D. of W.	Various Phenomena.	Sun	Sun	SNOW PLACE	Moon	H'a	Tid-	ri de savannah
			rise	sets		h. m.	h. m.	h. m.	
1 Satur		Lammas Day.	5 12	6 45		9 10	10	5	
2 S.		Sweltery weather.	5 13	6 47		9 57	10	42	
3 Mon		Burr's trial com	1807.	5 13 6 47	ψ	10 47	11	22	
4 Tues		Brownstown Bat.	1812.	5 14 6 46		11 21	Even.	5	
5 Wed		Fomalhaut sou	1h 53m.	5 15 6 45	8	11 54	0	47	
6 Thur		Bat. Hang. Rock, 1780.	5 16	6 44		Morn.	1	36	
7 Frid		Rain and thunder.	5 17	6 43		0 41	2	28	
8 Satur		Cloudy and	5 17	6 43	π	1 36	3	36	
9 S.		Bat. Oak Hill, 1861.	5 18	6 42		2 25	4	58	
10 Mon		Moon highest.	windy	5 19 6 41	ω	3 35	6	26	
11 Tues			weather,	5 20 6 40		4 43	7	30	
12 Wed		George IV. born, 1762.	5 21	6 39	ζ	5 55	8	23	
13 Thur		Now we may	5 22	6 38		6 10	9	40	
14 Frid		Altair sou 10h 9m.	5 22	6 38	ψ	Sets.	9	56	
15 Satur		Bonaparte born, 1769.	5 23	6 37		8 1	10	25	
16 S.		Bat. at Camden, 1780.	5 24	6 36	Δ	8 50	10	59	
17 Mon		expect a heavy	5 25	6 35		9 31	11	22	
18 Tues		Altair sou 9h 53m.	5 26	6 34	η	10 22	Morn.		
19 Wed		storm of wind and	5 27	6 33		11 10	0	16	
20 Thur		Bat. in Mexico, 1847.	5 28	6 32	†	11 50	0	36	
21 Frid		Wm. IV. born, 1765.	5 29	6 31		Morn.	1.	12	
22 Satur		enters η.	rain.	5 30	6 30	0 40	1	51	
23 S.		lowest. [from N. E.	5 31	6 29	ψ	1 31	2	44	
24 Mon		brightest in the eve.	5 32	6 28		2 21	3	57	
25 Tues		Bp. Bowen died 1839.	5 33	6 27	ω	3 25	5	17	
26 Wed		Dr. Adam Clark d. '32.	5 34	6 26		4 15	6	32	
27 Thur		Fair and mild.	5 35	6 25		5 16	7	31	
28 Frid		Hatteras taken 1861.	5 36	6 24	χ	Rizes.	8	18	
29 Satur		St. John Bap. beheaded	5 37	6 23		7 31	9	2	
30 S.		Paley born, 1743.	5 38	6 22	ψ	8 15	9	41	
31 Mon		Bunyan died, 1688.	5 39	6 21		9 0	10	20	

9th Month.]

SEPTEMBER, 1863.

[30 Days.]

MOON'S PHASES.

Last Quarter	4	11	13 eve.
New Moon	12	11	29 eve.
First Quarter	20	4	41 mo.
Full Moon	27	9	32 mo.

14. If the attraction of the moon raise a tide on the earth five feet high, what will be the height of a tide, raised by the earth on the surface of the moon, under similar circumstances.

D. of M.	D. of W.	Various Phenomena.	Sun rises H.M.	Sun sets H.M.	MOON'S PLACE.	Moon H. Tide		
						SAVAN-	ri & sets	NAH
						H.	M.	M.
1 Tues		Fair and warm.	5 39	6 21		9	40	11 0
2 Wed		London burn'd, 1666.	5 40	6 20	8	10	20	11 44
3 Thur		Cloudy, and some	5 41	6 19		11	10	ev. 27
4 Frid		Altair S. 8 h'rs 46 min.	5 42	6 18	II	morn.	1	15
5 Satur		Dog-days end.	rain	5 43	6 17	0	2	2 9
6 S.		Lafayette, born, 1757.	5 44	6 16		0	58	3 20
7 Mon		highest. with thun-	5 45	6 15	IS	1	43	4 46
8 Tues		Bat. Eutaw, 1781. der.	5 46	6 14		2	50	6 10
9 Wed		Fomalhaut sou. 11h 32m	5 47	6 13	II	3	2	7 15
10 Thur		Bat. Lake Erie, 1813.	5 48	6 12		4	15	8 8
11 Frid		Cloudy and	5 49	6 11	II	5	25	8 49
12 Satur		damp.	5 50	6 10		sets.	9	25
13 S.		Douati's Comet, 1252.	5 51	6 9	II	7	0	9 59
14 Mon		Moscow burned, 1812.	5 52	6 8		7	54	10 36
15 Tues		Surren. of N. Y., 1776.	5 53	6 7	II	8	48	11 1
16 Wed		Fomalhaut sou. 11h 4m	5 54	6		9	31	11 32
17 Thur		Changeable and	5 55	6	II	10	20	morn.
18 Frid		unsettled weather.	5 56	5	4	11	5	0 16
19 Satur		Moon lowest.	5 57	6	II	11	56	0 36
20 S.		Stormy and boisterous.	5 58	6	2	morn.	1	16
21 Mon		St. Matthew.	5 59	6	1	II	0	43 2 5
22 Tues		Weather may now	6	0	0	1	32	3 10
23 Wed		Sun enters ω . Days and	6	1 5	59	2	37	4 30
24 Thur		[nights equal.]	6	2 5	58	II	3	46 5 54
25 Frid		Fomalhaut sou. 16h 29m	6	3 5	57	4	28	7 1
26 Satur		be expected fair.	6	4 5	56	II	5	29 7 49
27 S.		Artic lost, 1234.	6	5 5	55	rises.	8	33
28 Mon		Detroit retaken, 1813.	6	6 5	54	7	21	9 12
29 Tues		γ & Sun Inferior.	6	7 5	53	8	16	9 55
30 Wed		δ Sun. St. Jerome.	6	8 5	52	9	0 10	40

MOON'S PHASES.

	D.	M.	N.	
Last Quarter	4	3	27	eve.
New Moon	12	1	27	eve.
First Quarter	19	1	34	eve.
Full Moon	26	0	31	eve.

15. Suppose a vessel 3 feet wide, 5 feet long and 4 feet high, what is the perpendicular pressure on the bottom, it being filled with water to the brim?

D. of M.	D. of W.	Various Phenomena.	Sun	Sun	Moon	High tide Savannah	
			rises	sets.	MOON'S PLACE		
			H. M.	H. M.	H.		
1 Thur	4 6 ♀	<i>Cloudy and</i>	6 9	5 51	□	9 56	11 24
2 Frid	Major Andre ex.	1780.	6 10	5 50		10 43	E. 11
3 Satur		<i>damp weather.</i>	6 11	5 49		11 36	0 58
4 S.	⌚ highest.		6 12	5 48	☽	morn.	1 55
5 Mon	Brainard died, 1747.		6 13	5 47		0 21	3 4
6 Tues	Fomalhaut sou 9h 46m.	6 14	5 46	Ω		1 15	4 27
7 Wed	Bat King's Mount. '80.	6 15	5 45			2 14	5 49
8 Thur	<i>Cool nights and</i>	6 15	5 45	☽		3 12	6 55
9 Frid	Battle Schleitz, 1806.	6 16	5 44			4 8	7 44
10 Satur		<i>mornings.</i>	6 17	5 43	≈	4 59	8 25
11 S.	Bahamas discov'd 1492.	6 18	5 42			5 48	8 59
12 Mon		<i>Fair and</i>	6 19	5 41	ℳ	sets.	9 32
13 Tues		<i>mild weather.</i>	6 20	5 40		6 21	10 3
14 Wed	Fomalhaut sou 9h 14m.	6 21	5 39	♩		7 22	10 34
15 Thur	Bank Panic, 1857.	6 22	5 38			8 28	11 6
16 Frid		<i>Raining and</i>	6 23	5 37	☽	9 36	11 37
17 Satur	Burgoyne surrend 1777.	6 24	5 36			10 42	Morn.
18 S.	St. Luke.	<i>stormy.</i>	6 25	5 35		11 50	0 16
19 Mon	Cornwallis sur 1781.	6 26	5 34	≈	morn.	0 50	
20 Tues		<i>Windy and cool.</i>	6 27	5 33		0 42	1 25
21 Wed	Fomalhaut sou 8h 47m.	6 28	5 32	ℳ		1 36	2 34
22 Thur		<i>Now we may expect</i>	6 29	5 31		2 39	3 58
23 Frid	⌚ enters ℳ.		6 30	5 30		3 21	5 9
24 Satur		<i>frost.</i>	6 31	5 29	☽	4 28	6 21
25 S.	* sou 1h 23m.		6 32	5 28		5 41	7 16
26 Mon		<i>Changeable and</i>	6 33	5 27	8	rises.	8 4
27 Tues	Fomalhaut sou 8h 23m.	6 34	5 26			7 1	8 49
28 Wed	St. Sim. and St. Jude.	6 35	5 25			7 58	9 35
29 Thur		<i>unsettled.</i>	6 36	5 24	□	8 42	10 21
30 Frid	⌚ highest.		6 37	5 23		9 31	11 7
31 Satur	⌚ & ☽	<i>weather.</i>	6 38	5 22	☽	10 14	11 54

11th Month.]

NOVEMBER, 1863.

[30 Days.

MOON'S PHASES.

	D.	H.	M.	
Last Quarter	3	9	28	mo.
New Moon	11	2	36	mo.
First Quarter	17	11	29	eve.
Fall Moon	25	3	29	mo.

16. With what velocity will an iron ball begin to descend, if raised 3,000 miles above the earth's surface?

17. How high must a ball be raised, to lose half its weight?

D. of M.	D. of W.	Various Phenomena.	Sun	Sun	Moon	H. Tide
			rises	sets	MOON PLACE	SAVAN NAH.
			h. m.	h. m.	h. m.	h. m.
1 S.	All Saint's day.	6 39 5 21	11	5 eve. 45		
2 Mon	All Souls' day.	6 40 5 20	11	57 1 35		
3 Tues	Fair and Cool.	6 40 5 20	morn.		2 37	
4 Wed	3 brightest in the morn.	6 41 5 19		0 43	3 53	
5 Thur	Gunpowder plot, 1605.	6 42 5 18	1	27	3 6	
6 Frid	Leonard.	Cloudy 6 43 5 17	2	36	6 17	
7 Satur	Bat. Belmont, 1861.	6 44 5 16	3	34	7 11	
8 S.	Transit of 3, 1848.	6 45 5 15	4	31	7 54	
9 Mon	and Damp.	6 46 5 14	5	21	8 33	
10 Tues	Milton died, 1674.	6 46 5 14	6	2	9 8	
11 Wed	Eclipsed, invisible.	6 47 5 13	1	sets.	9 42	
12 Thur	Frosty and 6 48 5 12		6	31	10 13	
13 Frid	Moon lowest.	Fair. 6 49 5 11	7	39 10	45	
14 Satur	Chas. Carroll d., 1832.	6 49 5 11	8	36	11 18	
15 S.	Witherspoon d., 1794.	6 50 5 10	9	51 1	12 52	
16 Mon	Tea dest'd Boston, 1773	6 51 5 9	10	59	morn.	
17 Tues	7 Stars sou. 11h 49m.	6 52 5 8	morn.	0	31	
18 Wed	Windy, and a Cold	6 52 5 8	X	0	8 1	15
19 Thur	7 Stars sou. 11h 41m.	6 53 5 7		1	10 2	7
20 Frid	Rain may be expected.	6 54 5 6	op	2	21	3 9
21 Satur	Sun enters 7	6 54 5 6		3	30	4 25
22 S.	Fair, and 6 55 5 5			4	48	5 35
23 Mon	Bomb. Ft. Pickens, '61.	6 56 5 4	8	55	6 42	
24 Tues	Cold Winds.	6 56 5 4		6	25	7 38
25 Wed	Moon Eclipsed visible.	6 57 5 3	II	rises.	8 27	
26 Thur	Q. Isabella died, 1504.	6 58 5 2		6	10 9	19
27 Frid	Moon highest.	6 58 5 2	X	7	0 10	9
28 Satur	Cloudy Weather.	6 59 5 1		7	56 10	57
29 S.	Advent Sunday.	6 59 5 1		8	43 11	42
30 Mon	St. Andrew's Day.	7 0 5 0	Ω	9	39 eve.	29

12th Month.]

DECEMBER, 1863.

[31 Days.

MOON'S PHASES.

D. H. M.

Last Quarter	3	3	53 me.
New Moon	10	2	43 eve.
First Quarter	17	10	39 mo.
Fall Moon	24	9	0 eve.

18. If the velocity of a stream of water spouting through the bulk head of a mill be 16 feet per second, what head of water is there?

D of M	D. of W	Various Phenomena.	Sun	Sun	Moon	High'tl ri. & sta H. M. H. M.		
			rises	sets	High'tl ri. & sta H. M. H. M.	High'tl ri. & sta H. M. H. M.	High'tl ri. & sta H. M. H. M.	High'tl ri. & sta H. M. H. M.
1 Tues		Days 10 hours long.	7	0 5 0	10 25	1	15	
2 Wed		7 Stars souths 10h 50m	7	1 4 59 ☽	11 21		8	
3 Thur		<i>Fair and Frosty.</i>	7	1 4 59	morn.		1	
4 Frid		Sun fast, clock 9m 19s.	7	2 4 58 ☾	0 15	4	12	
5 Satur		<i>Rainy and Cool.</i>	7	2 4 58	1 25	5	18	
6 S.		Van Buren born, 1782.	7	2 4 58 ☽	2 35	6	24	
7 Mon		<i>Windy and</i>	7	3 4 57	3 48	7	20	
8 Tues		7 Stars souths 10h 26m.	7	3 4 57 ☀	4 59	8	7	
9 Wed		<i>unpleasant Weather.</i>	7	3 4 57	5 58	8	48	
10 Thur		Moon lowest.	7	3 4 57 ☽	sets.	9	21	
11 Frid		Gt. Fire Charleston, '61.	7	4 4 56	5 58	9	56	
12 Satur		<i>Cold enough</i>	7	4 4 56 ☽	6 40	10	31	
13 S.		Bat. Valley Mount., 1861	7	4 4 56	7 28	11	5	
14 Mon		Washington died, 1799.	7	4 4 56	8 45	11	40	
15 Tues		<i>for Ice.</i>	7	4 4 56 ☽	9 40	morn.		
16 Wed		Gt. Fire N. York, 1835.	7	5 4 55	10 53	0	17	
17 Thur		<i>Rainy and unpleasant</i>	7	5 4 55 ☽	morn.	1	0	
18 Frid		Sun fast, clock 2m 51s.	7	5 4 55	0 2	1	50	
19 Satur		<i>Weather.</i>	7	5 4 55	1 12	2	59	
20 S.		S. Carolina seced. '60.	7	5 4 55	2 21	4	25	
21 Mon		Sun ent. ☽ Shortest day.	7	5 4 55	3 42	5	35	
22 Tues		Land. of Pilgrims, 1620.	7	5 4 55 ☽	4 56	6	42	
23 Wed		Sir I. Newton born, 1642	7	5 4 55	6 2	7	38	
24 Thur		Sun & clock agree.	7	5 4 55	rises.	8	27	
25 Frid		CHRISTMAS DAY. <i>Clear</i>	7	5 4 55 ☽	5 58	9	10	
26 Satur		highest. St. Stephen.	7	5 4 55	6 48	10	9	
27 S.		St. John Evang. <i>and</i>	7	4 4 56 ☽	7 37	10	57	
28 Mon		Innocents. <i>cold weather</i>	7	4 4 56	8 26	11	42	
29 Tues		The Java taken, 1812.	7	4 4 56 ☽	9 13	eve.	26	
30 Wed		7 Stars souths 9h 0m.	7	4 4 56	10 14	1	19	
31 Thur		<i>for this Climate.</i>	7	4 4 56 ☽	11 12	2	10	

GOVERNMENT OF THE CONFEDERATE STATES.

EXECUTIVE CABINET.—Jefferson Davis, of Miss., President; Alexander H. Stephens, of Ga., Vice-President; J. P. Benjamin, of La., Secretary of State; C. G. Memminger, of S. C., Sec. Treasury; Jas. A. Seddon, of Va., Sec. War; R. S. Mallory, Sec. Navy; John H. Reagan, Postmaster-General; A. T. Watts, Attorney General.

GOVERNMENT OF GEORGIA.

Capitol—MILLEDGEVILLE.

Area—58,000 Square Miles; — — — Total Population—1,082,797.
Slaves—467,461.

EXECUTIVE AND CABINET.—Joseph E. Brown, Governor; H. H. Waters and J. D. Campbell, Secretaries Ex. Depar't; N. C. Barnett, Sec. State; Peterson Thweatt, Comp. Gen'l; John Jones, Treasurer; H. C. Wayne, Adj't and Insp'r Gen'l.

REPRESENTATION IN CONFEDERATE CONGRESS.

B. H. Hill, } SENATORS. { H. V. Johnson.
REPRESENTATIVES.

1st District, Julian Hartridge,	6th District, W. W. Clark,
2d do C. J. Mannerlyn,	7th do R. P. Tripp.
3d do Hines Holt,	8th do L. J. Gartrell,
4th do A. H. Kenan,	9th do Hardy Strickland,
5th do D. W. Lewis,	10th do A. R. Wright.

GOVERNMENT OF ALABAMA.

Capitol—MONTGOMERY.

Area—50,728 Square Miles; — — — Total Population—935,917.
Slaves—435,473.

John Gill Shorter, Governor; P. H. Britton, Secretary of State; W. J. Green, Comptroller; D. B. Graham, Treasurer.
Clement C. Clay, | SENATORS. | William L. Yancey.

GOVERNMENT OF MISSISSIPPI.

Capitol—JACKSON.

Area—47,156 Square Miles; — — — Total Population—887,158;
Slaves—479,677.

John J. Pettus, Governor; Charles A. Brougher, Secretary of State; A. J. Gillessie, Auditor of Public Accounts; M. D. Haynes, State Treasurer; T. J. Wharton, Attorney General.
Albert Brown, | SENATORS. | James Phelan.

GOVERNMENT OF LOUISIANA.

Capitol—BATON ROUGE.

Area—41,436 Square Miles; — — — Total Population—666,431
Slaves—312,186.

Thomas O. Moore, Governor; H. M. Hyams, Lieut. Governor; P. D. Barely, Secretary of State; Thomas J. Semmes, Attorney General.

**TIMES AND PLACES OF HOLDING
Superior and Inferior Courts of Georgia,
FOR 1863.**

COUNTIES	SUPERIOR COURTS.	INFERIOR COURTS.	Co. TOWNS.
Ap. Hug....	1st Monday Mar. and Sept	1st Monday June and Dec	Homesville
Baker.....	2d do May and Nov.	2d aft 1st Mon Jan July	Newton
Baldwin.....	4th do Feb. and Aug.	3d Monday May and Nov.	Milledgeville
Banks.....	Thar aft 1st Mon Apr & Oct.	1st do Feb and Aug.	
Barrien.... {	Monday after Super. Court in Town.	2d do Jan and July.	Nashville
Bibb.....	21 Monday May and Nov.	last do Feb, 4th Mo. Aug	
Brooks.....	2d do Dec and June	3d do Feb and Aug.	Macon
Bryan..... {	Day after 3d Mon Apr. and Mon aft Liberty Court Nov	4th do Jan and June	Eden
Bulloch.... {	Friday after 3d Mon Mar & Friday after 4th Mon Oct	1st do Feb and July.	Statesboro
Burke.....	2d Monday May and Nov	1st do Jan and July	Waynesboro'
Butts.....	2d do Mar and Sept	2d do Jan and July.	Jackson
Oakhoun.....	4th do May and Nov	3d do May and Nov	Morgan
Cain an....	3d do April and Oct	1st do Jan and June.	Jeffersonston
Campbell.....	2d do Feb and Aug	3d do June and Dec.	Cam-bellton
Carroll.....	1st do April and Oct	4th do June and Dec.	Carrollton
Cusa.....	2d do Mar and Sept.	4th do May and Nov.	Cassville
Catoosa.....	2d do May and Nov.	4th do Jan and July	Ringgold
Choctawh....	2d do Jan and May	3d do Feb and July	Savannah
Chetah 'chee.	3d do May and Nov	3d do Feb and Aug.	Cussets
Chotaonga....	1st do Mar and Sept	4th do May and Nov.	Summerville
Cherokee ...	1st do do do	2d do June and Dec.	Canton
Chorlton....	2d do April and Oct.	1st do Feb and Sept.	Praders' Hill
Clarke.....	1st do Feb, 2d Mo. Au	4th do April and Oct.	Watkinsville
Clay.....	4th do Mar and Sept.	4th do Jan and July.	Port Gaines
Clayton.....	1st do May and Nov.	1st do Feb and July	Jonesboro'
Clinch.....	4th do Mar and Sept.	3d do Jan and July.	Magnolia
Cobb.....	3d do do do	3d do June and Dec.	Marietta
Coffe.....	2d do do do	1st do May and Nov.	Douglas
Columbia....	1st do do do	1st do Feb and July	Appling
Colquitt ... {	last do in May, and Monday after 4th Mon Nov	1st do Jan and July.	Moultrie
Coweta.....	1st do Mar and Sept	1st do June and Dec	Newnan
Crawford....	1st do do do	3d do Jan and Jul	Knoxville
Dade.....	4th do May and Nov.	1st do Mar and Sept.	Fremont
Dawson.....	2d do Feb and Aug.	1st do June and Dec.	Dawsonville
Decatur....	4th do April and Oct.	2d do Jan and July.	Bainbridge
DeKalb....	4th do do do	3d do Jan and July.	Decatur
Dooly.....	1st do do do	2d do June and Dec.	Vienna
Dougherty....	1st do June and Dec.	1st do Mar and Sept.	Albany
Early.....	1st do April and Oct.	2d do June and Dec.	Blakely
Echols.....	Mon aft 4th Mon Mar & Sept.	Mo. aft inf. Court in Clinch	
Effingham... {	Mon aft 4th Mon Mar. and 2d Mon aft 4th Mon Ost.	2d Munday Feb and July.	Springfield
Elbert.....	2d Monday Mar and Sept.	2d do Jan and July.	Ebenton
Emmanuel....	1st do April and Oct	1st do do do	Paris
Fannin.....	2d do May and Oct.	2d do do do	Morganton
Fayette.....	2d do Mar and Sept.	2d do Jan and June.	Fayetteville
Floyd.....	3d do Jan & 1st Mo July	2d do April and Oct.	Rome
Forsyth....	2d do Feb and Aug.	3d do do do	Cumming
Franklin....	1st do April and Oct.	4th do Jan and July.	Carrollsville
Fulton.....	1st do do do	3d do June and Dec.	Atlanta
Gilmer.....	1st do May and Oct.	2d do Jan, 1st Mon July	Wiley
Glascock....	2d do Feb and Aug.	4th do May and Nov.	Gibson
Glynn.....	4th do April and Oct.	2d do Jan and June.	Brunswick
Greene.....	2d do Mar and Sept.	2d do June and Dec.	Greensboro'
Gordon.....	1st do April and Oct.	4th do Jan and July.	Calhoun
Gwinnett....	1st do Mar & 2d Sept	1st do Mar and Dec.	Lawrenceville
Habersham... {	Thur aft 4th Mo. Mar Sept	2d do Jan and July.	Clarksville
Hall.....	2d Monday Mar and Sept.	4th do do do	Gainesville
Hancock....	2d do April and Oct.	1st do Feb and Aug.	Sparta
Haralson ...	2d do do do do	2d do Jan and July.	Tallapoosa

Superior and Inferior Courts of Georgia, Continued.

COUNTIES.	SUPERIOR COURTS.	INFERIOR COURTS.	CO. TOWNS.
Bartow.....	1st Monday April and Oct	2d Monday Jan and July	Hamilton
Hart.....	3d do March and Sept	3d do June and Dec	Hartwell
Heard.....	2d do April and Oct	2d do Jan and July	Franklin
Henry.....	3d do April and Sept	4th do Feb and Aug	M. Donough
Houston.....	4th do do do	4th do Jan and July	Perry
Irwin.....	Third alt Sup Court Telfair	4th do Jan 1st M. July	Irwinville
Jackson.....	4th Monday Feb and Aug	2d do Jan and July	Jefferson
Jasper.....	4th do April and Oct	4th do do do	Monticello
Jefferson.....	3d do May and Nov	2d do do do	Louisville
Jackson.....	4th do Mar and Sept	2d do April and Oct	Clinton
Jones.....	3d do April and Oct	4th do Jan and July	Dublin
Laurens.....	2d do do do	1st do Jan and Dec	Starkesville
Lee.....	4th do March and Sept	4th do Jan and July	Hinesville
Liberty.....	3d Monday Mar 4th M. Nov	2d do Jan and July	Lincolnton
Lincoln.....	4th Monday April and Oct	1st do Feb and July	Troupville
Lowndes.....	1st do June and Dec	1st do Feb and Aug	Dahlonega
Lumpkin.....	1st do Feb and Aug	3d do June and Lee	Oglethorpe
Macon.....	2d do March and Sept	1st do Feb and July	Danielville
Madison.....	1st do do do	2d do Jan and July	Buena Vista
Marion.....	1st do do do	2d do May and Nov	Darien
McIntosh...{	Tues. aft 2d Mon April & d Thursday aft 4th Mon in Nov	3d do Jan and June	Groveville
Meriwether...	3d Monday Feb and Aug	4th do April and Oct	Colquitt
Miller.....	2d do April and Oct	4th do March and Sept	Albaretta
Milner.....	4th do March and Sept	4th do June and Dec	Camilla
Mitchell.....	2d do May and Nov	4th do Feb and Aug	Forsyth
Macon.....	4th do Feb and Aug	2d do June and Dec	Mt Vernon
Macon.....	Thurs. aft 2d Mon in Mar and 1st Friday aft 4th Mon in Oct	1st do Feb and Aug	M. discr
Morgan.....	1st Monday Mar and Sept	1st do June and Dec	Spring Place
Murray.....	3d do April and Oct	2d do Jan and July	Columbus
Muscogee.....	4th do May and Sept	2d do Mar and Sept	Covington
Newton.....	2d do March and Sept	4th do June and Dec	Lexington
Oglethorpe.....	3d do April and Oct	4th do Jan and June	Dalies
Paulding.....	4th do Feb and Aug	2d do June and Dec	Jasper
Pickens.....	2d do March 1st M. Sept	3d do Jan and July	Blockshear
Pierce.....	Th before 1st M. in Mar. Sept	3d do June and Dec	Zebulon
Pike.....	1st Mo Apr & Th aft 1st M. Oct	1st do do do	Cedartown
Polk.....	4th Monday April and Oct	4th do do do	Hawkinsville
Pulaski.....	2d do do do	Jan 1st Mon July	Lafayette
Pettway.....	4th do Mar and Sept	1st do June and Dec	Georgetown
Quitman.....	3d do May and Nov	2d do Feb and Aug	Clayton
Rabun.....	4th do Mar and Sept	1st do Jan and July	Cuthbert
Randolph.....	1st Monday May and Nov	1st do Feb and Aug	Augusta
Ridmond...{	2d do April and Oct	1st do June and Dec	Hilaville
Rehov.....	4th do April and Oct	4th do Jan and Aug	Sylvania
Sevier.....	1st do May and Nov	2d do Jan and July	Griffith
Spalding.....	3d do May and Nov	3d do Feb and Aug	Lumpkin
Stewart.....	2d do April and Oct	1st do Feb and June	Americus
Sumter.....	2d do Mar do	2d do Jan and July	Talbotton
Talbot.....	3d do March and Sept	3d do June and Dec	Crawfordville
Walferne.....	4th do Feb and Aug	1st do do do	Reevesville
Latell.....	2d do Mar & 4th M. Oct	2d do Feb and Aug	Butler
Taylor.....	1st do April and Oct	2d do do do	Jacksonville
Torrell.....	4th do May and Nov	4th do do do	Thomasville
Yelton.....	Third alt Court in Wilcox	4th do Jan and July	Hawesville
Thomas.....	1st Monday June and Dec	4th do Feb and Aug	Lafayette
Towns.....	Thu aft 2d Mon May & Oct	3d do June and Dec	Marion
Troup.....	21 Monday May and Nov	1st do Feb and Aug	Brownsville
Twiggs.....	4th do March and Sept	4th do Jan and July	LaFayette
Union.....	2d do May and Oct	4th do June and Dec	Monroe
Upson.....	1st do May and Nov	1st do Feb and Aug	Wareboro'
Walker.....	1st do before 1st Mo Mar Sep	1st do May and Dec	
Walton.....	2d & 3 Mon Feb & 3 Mo Aug	2d do May and Nov	
Ware.....	2d Monday Mar and Sept.	3d do June and Dec	

Superior and Inferior Courts of Georgia.

Continued.

COUNTIES.	SUPERIOR COURTS.	INFERIOR COURTS.	Co. TOWNS.
Warren	1st Monday April and Oct	2d Monday Feb and Aug	Warrenton
Washington	2d do Mar and Sept	4th do Jan and July	Sandersville
Wayne	Th after 3d Mon April Oct	2d do do do	Waynesville
Webster	2d Monday March and Sept	2d do June and Dec	Preston
White	Thu af 3d Mon March & Sept	4th do June and Dec	Mt. Zion
Woox	4th do April and Oct	2d do Jan and July	Abbeville
Wilkes	4th do March and Sept	1st do May and Nov	Washington
Wilkinson	1st do April and Oct	2d do Jan and July	Irwinton
Whitfield	4th do do do	1st do do do	Dalton
Werth	2d do do do	1st do June and Dec	Isabella

SUPERIOR COURTS—CIRCUITS,

JUDGES AND SOLICITORS.

BRUNSWICK CIRCUIT—Applying, Camden, Charlton, Clatch, Coffee, Echols, Glynn, Pierce, Ware, Wayne. W. M. Sessions, Judge; W. H. Dasher, Solicitor.

PATAULA CIRCUIT—Chattahoochee, Clay, Early, Miller, Quitman, Randolph, Stewart, Webster. Judge; F. D. Bailey, Solicitor.

TALLAPOOSA CIRCUIT—Campbell, Carroll, Coweta, Floyd, Haralson, Heard, Paulding, Polk. D. F. Hammond Judge; Herbert Fielder, Solicitor.

NORTHERN CIRCUIT—Elbert, Gaines, Hancock, Hart, Lincoln, Madison, Oglethorpe, Taliaferro, Warren, Wilkes. Thomas W. Thomas, Judge; J. C. Burch, Solicitor.

EASTERN CIRCUIT—Bryan, Bulloch, Chattham, Elizabeton, Liberty, McIntosh, Montgomery, Tatnall. W. B. Fleming, Judge; C. C. Wilson, Solicitor.

MIDDLE CIRCUIT—Burke, Columbia, Emanuel, Jefferson, Johnson, Richmond, Serven, Washington. W. W. Malt, Judge; W. W. Montgomery, Attorney General.

WESTERN CIRCUIT—Clarke, Franklin, Gwinnett, Habersham, Hall, Jackson, Rabun, Walton, WhiteBanks. N. L. Hutchins, Judge; S. P. Thurmond, Solicitor.

OCULGELE CIRCUIT—Baldwin, Greene, Jones, Jasper, Morgan, Putnam, Wilkinson. ... Iverson L. Harris, Judge; Wm. A. Lofton, Solicitor.

SOUTHERN CIRCUIT—Bacon, Brooks, Colquitt, Laurens, Lowndes, Irwin, Pulaski, Telfair, Thomas, Wilcox. A. H. Haskell, Judge; S. B. Powers, Solicitor.

FLINT CIRCUIT—Butts, Harris, Monroe, Newton, Pike, Spalding, Upson. E. G. Cribbness, Judge; A. D. Hammond, Solicitor.

CHEROKEE CIRCUIT—Catoosa, Chattooga, Dale, Gordon, Murray, Whitfield, Walker. W. C. Cook, Judge; J. W. A. Johnston, Solicitor.

COWETA CIRCUIT—Clayton, DeKalb, Fayette, Fulton, Meriwether, Troup. O. A. Bull, Judge; Thomas L. Cooper, Solicitor.

SOUTH-WESTERN CIRCUIT—Baker, Calhoun, Floyd, Dougherty, Lee, Mitchell, Sumter. A. A. Allen, Judge; W. R. Smith, Solicitor.

CHATTahoochee CIRCUIT—Harris, Marion, Monroe, Schley, Talbot, Taylor. F. N. Worrall, Judge; J. Peabody, Solicitor.

MACON CIRCUIT—Bibb, Crawford, DeKalb, Forsyth, Macon, Twiggs, Worth. Henry G. Lewis, Judge; Theodorick W. Mountfort, Solicitor.

BLUE RIDGE CIRCUIT—Cherokee, Cobb, Dawson, Fannin, Forsyth, Gilmer, Lumpkin, Milton, Polk, Union. George D. Rice, Judge; Wm. Phillips, Solicitor.

SUPREME COURT OF GEORGIA.

Officers. [Elected by the Legislature, for the term of 6 years.]	Salary
Joseph H. Lumpkin, of Athens, Judge.	\$2,500
Charles J. Jenkins, of Richmond, do	2,500
Thos. J. Lyon, of Fulton do	2,500

First District.—Composed of the Eastern, Middle and Brunswick Judicial Circuits at Savannah, on the second Monday's in January and June in each year.

Second District.—Composed of the Macon, South-western, Chattahoochee and Pataula Judicial Circuits, at Macon—on 4th Monday in January and June in each year.

Third District.—Composed of the Flint, Coweta, Blue Ridge, Cherokee and Tallapoosa Judicial Circuits, at Atlanta, on 4th Mon. in March and 2d Mon. in Aug. ea. yr.

Fourth District.—Composed of the Western and Northern Judicial Circuits, at Athens—on the 4th Monday in May and 4th Monday in November in each year.

Fifth District.—Composed of the Oconee and Southern Judicial Circuits, at Millidgeville, on the second Mondays in May and November in each year.

DOMESTIC RECIPES.

PORK, BEEF OR MUTTON—HOW TO PRESERVE.—Take water, four gallons, coarse sugar, one and a half pounds, saltpeter, two ounces; common salt, eight pounds; put the whole into a clean pot and let it boil carefully taking off the scum; and when no more scum will rise, pour it into the vessel you intend to keep it in and when cold, put in your meat. This is all that is necessary, if you head up your cask; but if kept as a house pickle in an open vessel, when fresh, is put in weekly or from time to time; then in that case, the pickle should be reboiled every six weeks.

CURING HAMS AND BACON.—Use equal quantities of common Soda and Saltpeter—one ounce and a half of each to the fourteen pounds of Ham or Bacon, using the usual quantity of salt. The Soda prevents that hardness in the lean of the Bacon which is so often found, and keeps it quite mellow all through, besides being a preventive of rust.

SUBSTITUTE FOR SODA.—A lady sends the following, which we publish for the information of house-keepers:

To the ashes of corn cobs add a little boiling water. After allowing it to stand for a few minutes, pour off the ve which can be used at once with an acid [sour milk, or vinegar]. It makes the bread as light almost as Soda.

TO SAVE PORK.—Mr. John H. Taylor, gives through the Columbus Enquirer the following recipe for saving pork in an economical manner. He says several gentlemen have successfully practiced it the past year in Harris county.

“To 5 gallons of water add 7 pounds of salt, 1 pint of syrup, and 1 teaspoonful of pounded saltpeter. After the pork is cooked in the usual way, pack in barrels and cover with the above mixture—let it remain four or five weeks, and hang and smoke in the usual manner.”

Thus twenty pounds of salt are made to save one thousand pounds of pork.

CONFEDERATE DYE—TO MAKE A BEAUTIFUL BLUE.—Take elder berries, mash them and press out the juice. To two gallons of juice add about one ounce of copperas and two ounces of alum. Dip the thread in this thoroughly, and air, and the dye is set.

SAUSAGE MEAT.—After several years experience, I have found the following recipe to be the best for preparing sausage meat I have ever seen:

To 50 lbs. of chopped meat, add 1½ lbs of salt, 4 oz. of good black pepper, 14 table spoonfulls of sage.

HOW TO MAKE TALLOW CANDLES HARD.—Take the leaf of the Prickly Pear, say four or five cut up and boil with one pound of tallow, and your candles will surprise you for hardness.

TO PRESERVE BUTTER.—Take two quarts of best common salt, one ounce of sugar one ounce saltpeter all finely pulverized and dry; then thoroughly mix the whole together, and take one ounce of the mixture for each pound of butter, work well into the mass and close it up for use.

It should be remembered that butter thus prepared requires to stand a month before it is ready for use. If it is sooner opened the salt is not sufficiently blended with it, and sometimes the coolness of the saltpetre will be perceived, which totally disappears afterwards.

Butter being prepared for immediate use, had better be put up without the saltpetre, but the sugar in the proportions above given, may be used with great advantage, as the sugar gives butter an extra good flavor, and has a tendency to keep it sweet, and prevent its becoming rancid.

PRACTICAL DIRECTIONS FOR MAKING BREAD.—As most of the ingredients for raising bread, or yeast powders, &c., are becoming scarce, I think a good recipe given to housekeepers not out of the way.

Take about eight or ten middling sized Irish potatoes, pare and cut them very fine, then set them on to cook with about three times as much water as will cover them. When done, mash them fine in the same water, then add flour enough to make a thick batter. Remember the flour must be put in while the water is boiling hot, let it then cool off until about lukewarm, and then add a little piece of sour dough, say a teaspoonful to start with. Of course, after the housekeeper has once made this yeast, she can always keep a little of the old to add to the new. If kept in a warm place, it will be fit for use in about six hours. Add plenty of this to your flour, and you will have the lightest and best tasting bread that you would wish for.

PREPARING BUTTER.—A patent has been secured by W. Clark, of London, for the following method of preserving butter. The butter is first well beaten in the usual manner till returning, then placed between linen cloths, and submitted to severe pressures for removing whey and water. It is now completely enveloped or covered with clean white paper, which is coated on both sides with a preparation of the white of eggs in water. One grain of salt is used for each egg. This covered butter is then dried, then heated before a fire, or with a hot iron, just prior to wrapping it in the butter. It is stated that butter may be kept perfectly sweet without any salt for two months, when thus treated, if placed in a cool, dry cellar. The submitting of butter to pressure as described, is a good plan, and one which we recommend to all our farmers. They can easily practice it with a small cheese press.

STARCH OR HOME MANUFACTURE.—Take a peck of auground wheat of the best quality peck and sort it carefully. Next put into a tub; pour on sufficient clear, soft water to cover it, and then set it in the sun. Be sure to change the water every day, keeping it in the sun as much as possible, or in equally warm place in the house, should the weather prove unfavorable. When all the grains of wheat have become quite soft, rub it well in your hands, and separate it from the husks, which must be thrown into another tub. Let the soft wheat settle in a mass, and then pour off the water and put on fresh; stir it well, and let it settle again. Repeat this every day, till the last water comes off clear and colorless. Then pour the water finally off. Take the starch out of the tub, collect it in a thin bag, and hang it for a few days in the sun; after which spread on dishes or a sheet to dry.

SALTING AND SMOKING MEAT.—The following method, which requires only forty-eight hours, may be adopted for salting and smoking meat: A quantity of saltpetre, equal to the common salt that would be required for the meat in the usual way, must be dissolved in water. Into this the meat to be smoked must be put, and kept over a slow fire till all the water is evaporated. It must then be hung up in a thick smoke for twenty-four hours; when it will be found equal in flavor to the best Hamburg smoked meat that has been kept several weeks in salt, as red throughout and equally firm.

INDIAN SLAP-JACKS.—Scald a quart of Indian meal—when luke-warm, stir in a half a pint of flour, half a tea-cup of yeast and a little salt. When light, fry them in just fat enough to prevent their sticking to the frying-pan. Another method of making them, which is very nice, is to turn boiling milk or water on the Indian meal in the proportion of a quart of the former to a pint of the latter—stir in three table-spoonfuls of flour, three eggs well beaten, and a couple of tea-spoonfuls of salt.

GARDENER'S CHRONICLE.

—0—

JANUARY.—Sow peas, spinach, lettuce, cabbages, radishes, parsley beets, carrots, salsify, parsnips, turnips, asparagus. Plant horse radish, Irish Potatoes. Transplant cabbages and lettuce.

FEBRUARY.—Sow peas, spinach, lettuce, cabbage, radishes, corn, beets, carrots, parsnips, turnips, thyme, sage, and other plants. Plant Irish potatoes. Transplant cabbages and lettuce.

Remarks.—The same varieties of peas may be sown this month as were directed for the last. The principal crop of beets and carrots should now be sown. The common varieties of spinach should be sown in small quantities once in ten days, as it soon runs to seed.

MARCH.—Sow carrots, beets, Swiss chard, parsnips, salsify, cabbages, spinach, turnips, okra, tomatoes, peppers, Guinea squash. Plant cucumbers, okra, squashes, snap beans, snap beans, cowpeas, New Zealand spinach. Transplant tomatoes, peppers, Guinea squash, cabbages and lettuce.

Remarks.—All the above vegetables should be got in at as early a period as possible. Carrots should now be sown for a full crop, and from English seed. Lettuce should remain where it is sown. New Zealand spinach should be sown in hills, three feet apart each way. Radishes should be sown every three weeks. All Irish potatoes should be planted this month.

APRIL.—Sow carrots, beets, salsify, turnips, cabbages, cauliflower, brocoli, tomatoes, peppers, radishes, lettuce, celery, leeks. Plant okra, snap beans, squashes, cowpeas, melons. Transplant cabbages, tomatoes, peppers, Guinea squash. Pick out celery.

Remarks.—The sowing of the main crop of carrots for summer and autumn, ought not to be delayed longer than this month, as they will be easily killed when old. The seed should be from Europe, or they will run to seed in the fall. Cucumbers, squashes, and melons, do not succeed well if delayed until now, but a few may be sown.

MAY.—Sow cabbages, savoys, carrots, beets, turnips, cauliflower, brocoli, celery, radishes. Plant snap beans. Transplant cabbages. Pick out celery.

Remarks.—There is little probability of either beets, parsnips, carrots, or turnips succeeding at this season, especially the last; yet if wanted, a few may be ventured—under very favorable circumstances, they may succeed. If carrots be sown, the ground should be shaded and kept moist, and this continued to the plants sometime after they are up, or they will be killed by the hot sun.

JUNE.—Sow cauliflower, brocoli, cabbages, carrots, tomatoes. Plant snap beans, okra. Transplant celery, onions, leeks. Pick out cauliflower, brocoli, and celery.

Remarks.—This month is generally very dry and hot, and all the crops recommended to be sown now, must be protected from the sun; most of them should have been sown in April, and it is only in case of failure or omission that they should now be sown; the month may be considered bad for the sowing of seeds generally.

JULY.—Sow early Dutch turnips, rutabaga, carrots, parsnips, cabbages, cauliflower, brocoli, endive, radishes, spinach. Plant snap beans, Irish potatoes, melons. Transplant cabbages, cauliflower, brocoli, tomatoes, and leeks.

Remarks.—A few only of carrots, parsnips, spinach, or radishes, should be sown as it is not very probable that they will succeed, unless well protected from the sun for some length of time, while young. The early Dutch turnips should also be sown towards the middle and last of the month, in small quantities. The Irish potatoes will be fit for use in October, and the tomatoes, will furnish a supply when the spring grown crop has ceased to bear, and then continue till killed by a frost.

AUGUST.—Sow beans, early Dutch and other varieties of turnips, rutabaga, onions, cabbages, cauliflower, brocoli, black Spanish radishes, carrots, beets, parsnips, salsify, lettuce, and endive. Plant snap beans. Transplant cabbages, cauliflower, brocoli, celery, rutabaga, endive.

Remarks.—Not much can be expected from peas sown this month, as they will be much crippled by the high winds and rain which we usually have; but if much wanted a few may be ventured. The beets and spinach are liable to the attacks of the worms, which destroy their leaves; should they escape these they will be fine.

SEPTEMBER.—Sow early Dutch and other varieties of turnips, rutabaga, beets, Swiss chard, mangle wurtzel, carrots, parsnips, salsify, lettuce, spinach, cabbages, onions, radishes, endive. Plant snap beans. Transplant rutabaga, cabbages, cauliflower, brocoli, celery, lettuce, leeks, endive.

OCTOBER.—Sow cabbages, lettuce, carrots, beets, turnips, radishes, spinach, salsify, parsnips, rutabaga. Transplant cabbages, cauliflower, brocoli, onions, lettuce, leeks, and endive.

NOVEMBER.—Sow peas, cabbages, radishes, carrots, spinach, turnips, parsnips, lettuce, beets, salsify. Plant mazagon and Windsor beans. Transplant cabbages, lettuce, onions, and leeks.

DECEMBER.—Sow peas, spinach, radishes, lettuce, cabbages, salsify, carrots, beets, parsnips, rutabaga. Plant Irish Potatoes, mazagon and Windsor beans. Transplant cabbages, lettuce and onions.

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